



A REVOLUTION IN GAS SAMPLE CONDITIONING

- ➔ Monitor & Control Your Gas Sample Handling System Remotely via Modbus over TCP/IP or Windows® application over a network
- ➔ Local Monitoring & Control on a Jumbo 2-line LCD Screen with Multi-colored LEDs
- ➔ Precise Digital Calibration Accuracy and Immunity to Electrical Noise and Interference
- ➔ EZ-Clean™ Twist-Apart Heat Exchangers

KEY FEATURES

- Remote monitoring and control of heated filter probe, sample line, and sample conditioning system.
- eCOOL™ custom Windows® application to monitor and control over the Internet or LAN.
- Jumbo 2-line LCD display with multi-colored LEDs.
- Alarm notification of over / under temperature, thermocouple failure, and water slip.
- Alarm relay protects analyzers from water slip.
- Eliminates the complexity of separate temperature controllers.
- Extra thermocouple inputs and outputs available.
- Optional Durinert®+ treated heat exchangers for low NOx and acidic applications.
- Optional accessory board with probe blowback and dual gas stream switching control.
- Operates with 120VAC, 220VAC, 12VDC, 15VDC, or 24VDC.
- Backed by our 1-year limited warranty.

ONLY FROM BALDWIN

eCOOL™
5000
DIGITAL THERMO-ELECTRIC COOLER

General Purpose Applications

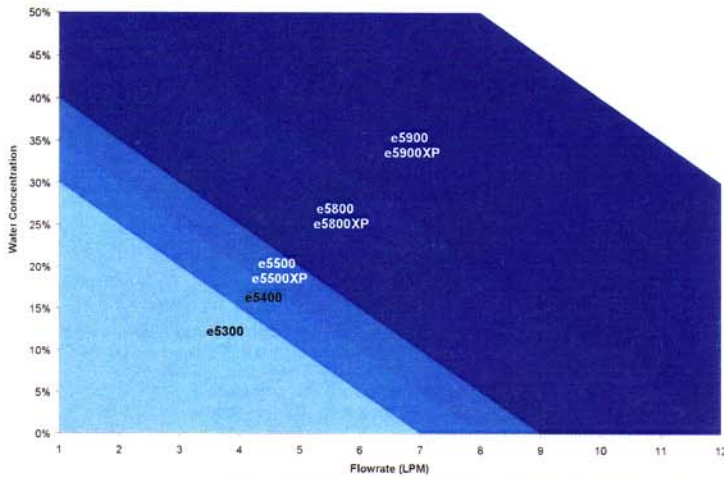
eCOOL™
5000XP
DIGITAL THERMO-ELECTRIC COOLER

CLASS 1 DIVISION 2 GROUPS A B C D

Class I Division 2 Groups A, B, C & D
CSA & CSA-US approved



Model Selection



Note: Chart is based on standard temperature and pressure and is meant for reference only. Please contact Baldwin, Inc. or your local Baldwin representative to determine the proper cooler for your application.

| | Heat Exchangers | | Dimensions | Weight |
|---------|-----------------|----------|---------------------------------------------|-----------------|
| | Passive | Active | | |
| e5300 | 1x5 in. | 1x5 in. | 11 x 7 x 11 in. HWD 29 x 18 x 29 cm HWD | 20 lbs 9 kg |
| e5400 | | 2x5 in. | 11 x 7 x 11 in. HWD 29 x 18 x 29 cm HWD | 20 lbs 9 kg |
| e5500 | 1x10 in. | 1x10 in. | 14 x 13 x 13 in. HWD 36 x 33 x 33 cm HWD | 37 lbs 17 kg |
| e5500XP | 1x10 in. | 1x10 in. | 14 x 13 x 13 in. HWD 36 x 33 x 33 cm HWD | 39 lbs 18 kg |
| e5800 | | 2x10 in. | 14 x 13 x 13 in. HWD 36 x 33 x 33 cm HWD | 37 lbs 17 kg |
| e5800XP | | 2x10 in. | 14 x 13 x 13 in. HWD 36 x 33 x 33 cm HWD | 39 lbs 18 kg |
| e5900 | 2x10 in. | 2x10 in. | 14 x 13 x 13 in. HWD 36 x 33 x 33 cm HWD | 39 lbs 18 kg |
| e5900XP | 2x10 in. | 2x10 in. | 14 x 13 x 13 in. HWD 36 x 33 x 33 cm HWD | 41 lbs 19 kg |

General Specifications

| | |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Digital Boards | Main control board Water slip alarm relay board LAN card (optional) Filter probe & heated sample line accessory board (optional) Heat exchanger thermocouple isolated output board (optional) |
| Alarms | Probe over / under temperature Probe thermocouple failure Heated sample line over / under temperature Heated sample line thermocouple failure Cooler over temperature Cooler thermocouple failure Water slip (moisture carryover) |
| Display | Jumbo dual-line LCD LED red, amber, green heat exchanger status indicators |
| Heat Exchanger Type | EZ-Clean™ twist apart |
| Heat Exchanger Material | Stainless steel (standard); Durinert® treated stainless steel, Kynar®, Glass (optional) |
| Heat Exchanger Connections | 1/4" FNTF Inlet (first heat exchanger) 1/8" FNTF Outlet 3/8" FNTF Drain |
| Heat Sink | High heat transfer aluminum |
| Voltage | 110/120 VAC, 220/240 VAC, 12 VDC, 15 VDC, 24 VDC |

Operating Specifications

| | |
|--------------------------------------|--------------------------------------------------------------------------------|
| Maximum Inlet Sample Temperature | 400°F (205°C) SS, Durinert®, Glass Impingers 280°F (138°C) Kynar® Impingers |
| Maximum Inlet Pressure | 45 psig 3 bar / 2250 mmHg |
| Maximum Heat Exchanger Pressure Drop | <+1 in. H2O |
| Ambient Temperature Range | 33-104°F 0.6-40°C |
| Outlet Sample Gas Dew Point | 41°F 5°C |

Digital Board Specifications

| | |
|--------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| Main Control Board | 4 thermocouple inputs 4 analog outputs |
| Water Slip Alarm Relay Board | 1 water slip (moisture carryover) input 2 high current DC outputs 2 dry contact outputs |
| LAN Card (optional) | Modbus over TCP/IP RJ45 / CAT 5 cable (10/100 mbps) |
| Filter Probe & Heated Sample Line Accessory Board (optional) | 2 thermocouple inputs Pulse width modulated digital output |
| Heat Exchanger Thermocouple Isolated Output Board (optional) | 2 thermocouple inputs 2 x 4-20mA outputs 2 x 0-10VDC outputs |

